

Polykemi AB SCANMID 6 B12^ NH9 Nylon 6, Flame Retardant, Halogen Free

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced, Flame Retardant

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-SCANMID-6-B12-NH9-Nylon-6-Flame-Retardant-Halogen-Free.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	With Flow; ISO 2577
	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	Across Flow; ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	73	73	ASTM D2240
Tensile Strength at Break	<= 71.0 MPa	<= 10300 psi	ISO/R527
Elongation at Break	12 %	12 %	ISO/R527
Flexural Strength	<= 90.0 MPa	<= 13100 psi	ISO 178
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 190/4A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	180 °C	356 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	63.0 °C	145 °F	120°C/h; ISO 75/1
Vicat Softening Point	200 °C	392 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	

Thermal Properties	215 °C Metric	419 °F English	Comments
	@Load 1.00 kg	@Load 2.21 lb	306
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	
Glow Wire Test	960 °C @Thickness 2.00 mm	1760 °F @Thickness 0.0787 in	IEC 695-2-1

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